Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

- (currently amended) A hydrophilic, water-wettable, semipermeable hollow-fibre membrane, based on a synthetic first polymer, particularly for use in hemodialysis, hemodiafiltration and hemofiltration, the comprising
 - a hydrophilic, water-wettable membrane being based on
 - a hydrophobic first polymer being selected from the group consisting of an aromatic sulfone polymer, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or a modification of these polymers, or a mixture of these polymers and
 - a hydrophilic second polymer being selected from the group consisting of polyvinylpyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a modification or copolymer of these polymers,

possessing an open-pored, integrally asymmetric structure across its wall— with a porous separating layer of thickness 0.1 to 2 µm on its inner surface facing the lumen— and an open-pored supporting layer adjoining the separating layer, and

having an ultrafiltration rate in albumin solution in the range of 25 to 60 ml/(h·m²·mmHg), characterized in that,

wherein after prior drying, the hollow-fibre membrane has a minimum sieving coefficient for cytochrome c of 0.8 combined with a maximum sieving coefficient for albumin of 0.005, and

whereby the hollow-fibre membrane in the dry state is free from pore-stabilising additives in the membrane wall.

2-3. (cancelled)

- 4. (currently amended) Hollow-fibre membrane according to Claim 3 1, characterised in that the hydrophobic first polymer is an aromatic sulfone polymer such as being selected from the group consisting of polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone, a polyearbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or a modification of these polymers, or a mixture of these polymers.
- 5. (currently amended) Hollow-fibre membrane according to Claim 4 $\underline{1}$, characterised in that the hydrophilic first polymer is a polysulfone or a polyethersulfone.

6. (cancelled)

- 7. (previously presented) Hollow-fibre membrane according to Claim 1, characterised in that the supporting layer extends from the separating layer across essentially the entire wall of the hollow-fibre membrane, has a sponge-like structure and is free from finger pores.
- (previously presented) Hollow-fibre membrane
 according to Claim 1, characterised in that it has a minimum sieving coefficient for cytochrome c of 0.85.
- 9. (previously presented) Hollow-fibre membrane according to Claim 1, characterised in that it has a maximum sieving coefficient for albumin of 0.003.
- 10. (withdrawn) Method for producing a hydrophilic, waterwettable, semipermeable hollow-fibre membrane according to Claim
 1, the method comprising the following steps:
 - a. preparing a homogeneous spinning solution comprising 12 to 30 wt.%, relative to the weight of the spinning solution, of a synthetic first polymer and, if applicable, other additives in a solvent system,
 - extruding the spinning solution through the annular slit of a hollow-fibre die to give a hollow fibre,

- c. extruding an interior filler through the central opening of the hollow-fibre die, the interior filler being a coagulation medium for the synthetic first polymer and comprising a solvent and a non-solvent for the synthetic first polymer,
- d. bringing the interior filler into contact with the inner surface of the hollow fibre to initiate coagulation in the interior of the hollow fibre and for formation of a separating layer on the inner surface of the hollow fibre and formation of the membrane structure.
- e. passing the hollow fibre through a coagulation bath to complete the formation of the membrane structure if necessary, and to fix the membrane structure,
- extracting the hollow-fibre membrane thus formed to remove the solvent system and soluble substances,
- g. drying the hollow-fibre membrane,

characterised in that the interior filler contains a polyelectrolyte with negative fixed charges, as a result of which a hollow-fibre membrane is obtained with a minimum sieving coefficient for cytochrome c of 0.80 combined with a maximum sieving coefficient for albumin of 0.005.

- 11. (withdrawn) Method according to Claim 10, characterised in that the spinning solution contains 12 to 30 wt.%, relative to the weight of the spinning solution, of a synthetic first polymer in combination with 0.1 to 30 wt.%, relative to the weight of the spinning solution, of a hydrophilic second polymer.
- 12. (withdrawn) Method according to Claim 11, characterised in that an aromatic sulfone polymer such as polysulfone, polyethersulfone, polyphenylenesulfone or polyarylethersulfone, a polycarbonate, polyimide, polyetherimide, polyetherketone, polyphenylene sulfide, or a copolymer or mixture of these polymers is used as the synthetic first polymer.
- 13. (withdrawn) Method according to Claim 11, characterised in that polyvinyl-pyrrolidone, polyethylene glycol, polyvinyl alcohol, polyglycol monoester, polysorbate, carboxymethylcellulose, or a copolymer of these polymers is used as the hydrophilic second polymer.
- 14. (withdrawn) Method according to Claim 10, characterised in that the solvent system comprises a polar aprotic solvent.

- 15. (withdrawn) Method according to Claim 10, characterised in that the polyelectrolyte is selected from the group of polyphosphoric acids, polysulfonic acids or polycarboxylic acids.
- 16. (withdrawn) Method according to Claim 15, characterised in that the polycarboxylic acids are homo- or copolymers of acrylic acid.
- 17. (withdrawn) Method according to Claim 10, characterised in that the proportion by weight of the polyelectrolyte relative to the weight of interior filler is 0.01 to 1 wt.%
- 18. (previously presented) Hollow-fibre membrane according Claim 1, characterised in that a polyelectrolyte with negative fixed charges is physically bound in the separating layer.
- 19. (previously presented) Hollow-fibre membrane according to Claim 1, with an ultrafiltration rate in albumin solution in the range of 30 to 55 ml/(h·m²·mmHg).